

INTERNATIONAL SEARCH REPORT

International application No.

P JP03/15832

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' G11B7/24, 7/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' G11B7/24, 7/26

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-352472 A (Matsushita Electric Industrial Co., Ltd.), 06 December, 2002 (06.12.02), Full text; all drawings (Family: none)	1-11
A	JP 2002-74748 A (Raitoku Kagi Kofun Yugen Koshi), 15 March, 2002 (15.03.02), Full text; all drawings (Family: none)	1-11
A	JP 8-69636 A (Ricoh Co., Ltd.), 12 March, 1996 (12.03.96), Full text; all drawings (Family: none)	1-11

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier document but published on or after the international filing date
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 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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 "&" document member of the same patent family

Date of the actual completion of the international search
01 April, 2004 (01.04.04)Date of mailing of the international search report
20 April, 2004 (20.04.04)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 11-339332 A (Toray Industries, Inc.), 10 December, 1999 (10.12.99), Full text (Family: none)	1-11
A	JP 2002-144736 A (Matsushita Electric Industrial Co., Ltd.), 22 May, 2002 (22.05.02), Example 6 & EP 1187119 A2 & US 2002/54983 A1	1-11
A	EP 1172811 A2 (Matsushita Electric Industrial Co., Ltd.), 16 January, 2002 (16.01.02), Full text; all drawings & JP 2003-16687 A	1-11
A	JP 2001-243655 A (Matsushita Electric Industrial Co., Ltd.), 07 September, 2001 (07.09.01), Full text; all drawings & US 2001/5350 A1	1-11
A	JP 9-293270 A (Pioneer Electronic Corp.), 11 November, 1997 (11.11.97), Par. No. [0028] & US 6009070 A	1-11
A	JP 10-83570 A (NEC Corp.), 31 March, 1998 (31.03.98), Full text; all drawings (Family: none)	1-11